1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

throughout an area of about four thousand square miles. All but eight of the known settlements were visited in person, and occasional individuals residing in the unvisited settlements were measured elsewhere. Owing to the smallness of the population and the difficulty of collecting data, it was deemed inadvisable to confine the selection of subjects to those showing only "pure Indian" traits. If such a selection had been followed, it would have been impossible to collect a sample of sufficient statistical size to provide a reliable picture of the present physical make-up of the population.[1]

Subjects were required to be recognized members of a Carib settlement on the Barama and to have an estimated age of at least eighteen in the case of females, and of at least twenty-one in the case of males. Cripples, defectives, and individuals who, even though they occupied adult social positions, appeared to be under the age limits, were eliminated. The amount of possible non-Indian blood in the sample thus obtained is indicated by the fact that, of the group of 104 males only 20 possessed the combination of straight, coarse, black hair. Of the 102 females only 14 possessed these characteristics. In sorting for individuals possessing the combination merely of straight, black hair, 28 out of 104 males in the sample appeared, and 33 out of a total of 102 females. Thus, if the possession of straight, black hair be assumed as the minimum criterion of racial purity, 27 percent of the male population and 32 percent of the female population were racially pure in this crude sense. There is no reason to believe that the proportions would have been radically altered had every adult individual in the area been measured.

Technique of measuring and observing followed that taught by Professor E. A. Hooton of Harvard University, and the recording was done on field blanks used by the Division of Anthropology of Harvard University. Head height was taken with the anthropometer, measuring from tragion to the top of the head. Recorders were Cedric Farnum, my guide, and Mr. S. Morgan Hills of Hartford, Connecticut, my companion during the last three months in the Barama country. The von Luschan porcelain color chart was used in determining skin color. The statistical computations on the raw data were done in the Harvard Anthropometric Labora-

[1] See Plates 27–30 for pictures of Carib physical types.

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

•141 tory by Mrs. Sarah Cotton and assistants, through the courtesy of Professor E. A. Hooton.

In Tables I to III and XIV to XVI inclusive will be found the statistical results of the physical investigation of the Barama Caribs.

A glance at the means of the measurements and observations of the male series reveals the general characteristics of the group. Attention may here be drawn to the short stature (156.82 cm.). Other measurements fall within the small or medium categories of the human range.[1]

Turning to the bodily proportions, we see that the head is mesocephalic, with a cephalic index of 80.22, metriocephalic with a breadth-height index of 81.75, and hypsicephalic with a length-height index of 67.52. In other words, the head verges on the "round" and, from the relative viewpoint, is moderately high.

The face including the jaws is leptoprosopic, as indicated by the total facial index of 88.63, while the upper face is mesen with an index of 47.93. The total face is thus quite long compared with its width, while the upper face is relatively broader, indicating the presence of strong teeth and chin. The breadth of the forehead is 68.71 percent of that of the maximum breadth of the head, as shown by the fronto-parietal index. The width of the face is 92.15 percent of the width of the head, as indicated by the cephalo-facial index. On the other hand, the maximum spread of the jaws (bigonial diameter) is only 73.42 percent of the facial breadth (bizygomatic diameter), as shown by the zygo-gonial index. The forehead is only 74.46 percent as broad as the face, as shown by the zygo-frontal index. The nose, in consonance with the face, is relatively narrow, or leptorrhine, with an index of 71.00.

The upper body is more than half, or 51.52 percent of the total stature, as shown in the relative sitting height. The shoulders are moderately well developed, the biacromial width being 22.80 percent of the stature, as indicated in the relative shoulder breadth. The chest is fairly deep, its depth being 80.86 percent of its width.

Anthropometric Sex Difference. Thirteen measurements were taken on both men and women. Chest depth and chest breadth were not observed on the female series because of scruples of modesty on the part of the subjects. If we calculate a mean of all

[1] See Martin, 1928, *Lehrbuch der Anthropologie in systematischer Darstellung*, p. 786 ff.

1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

the thirteen anthropometric means of the female series and a like mean for the male series and compare the two, we see that on this basis the women are 93.66 percent the size of the men, or in other words, the average woman is 7.44 percent smaller than the average man. Such a figure possesses more suggestive value than statistical validity. In all cases the mean measurements of the women are less than the comparable mean measurements of the men. Thus, the female mean stature is 93 percent of the male mean stature. Other percentages follow: biacromial, 94 percent; sitting height, 93 percent; head length, 94 percent; head breadth, 94 percent; head height, 93 percent; minimum frontal, 96 percent; total face height, 94 percent; upper face height, 93 percent; bizygomatic, 93 percent; bigonial, 94 percent; nose height, 94 percent; nose breadth, 90 percent. The average woman is farthest removed from the average man in the breadth of her nose, and most nearly approximates the male in the breadth of her forehead.

Thirteen indices were computed for both males and females. Real sex difference is apparently present in nine of these indices, namely, in relative shoulder breadth, relative sitting height, cephalic index, length-height index, breadth-height index, cephalo-facial index, fronto-gonial index, nasal index, and zygo-gonial index. In comparing the means for the four remaining indices, namely, the fronto-parietal, zygo-gonial, facial, and upper facial, we find that the probable errors of the male and female series overlap in each case, indicating that on the basis of the data in hand no actual sex differences in the four above mentioned bodily proportions can be determined.

Men have relatively wider shoulders than the women, the relative shoulder breadth of women being on the average 97 percent that of the men. Women's legs are proportionately shorter than the men's, the relative sitting height of men being only 99 percent that of women. The women possess relatively wider heads than the men, whose mean cephalic index is only 98 percent that of the women. Women's heads are also relatively higher than men's; the mean length-height index and the mean breadth-height index of men are in each case 97 percent those of women. The mean cephalo-facial index of women is 98 percent that of men, indicating a relatively narrower face as compared with the width of the head. The mean fronto-gonial index of women is

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

141 97 percent that of men, indicating that the width of the female jaws as compared with the width of the forehead is relatively less than the same proportion in men. The female nose is relatively narrower than the male, as shown by the fact that the mean female nasal index is 95 percent of the mean male nasal index.

The coefficients of variation for both the male and female series have been separately tabulated in Tables VIII and IX. The average male coefficient of variation for measurements is 5.15, as compared with an average female coefficient of 5.77. In the indices the average female variability is again higher than that of the men, with an average coefficient of 6.01 as compared with an average of 5.18 for the male indices. The three most variable male measurements are upper face height, head height, and nose breadth; the three most variable female measurements are biacromial, nose height, and upper face height. The three least variable male measurements are head length, head breadth, and bizygomatic. The three least variable female measurements are the same. The three most variable male indices are thoracic, upper facial, and nasal, while the females are most variable in relative shoulder breadth, upper facial, and nasal. Both sexes agree in showing the least variability in cephalo-facial, relative sitting height, and cephalic indices.

Morphological Characteristics. In Table III are to be found the results of the investigations of those morphological characteristics determined by observation rather than by measurement. Seventy-one physical features were observed on each individual, in addition to the measurements which have been discussed in the foregoing section. In Table III the absolute and percentile incidences for each variational category of each of the 71 observations are presented.

142 We may draw attention to certain characteristic features. Skin color (unexposed) tends to be light brown or red brown. Hair form is variable, the bulk being either straight or light wave, with straight in the ascendency for both sexes. It is to be noted that there is less variability in female hair. Also noteworthy is the proportion of deep wave and curly hair, amounting in the male series to 7.69 percent and 9.62 percent respectively, perhaps indicating negroid mixture. On the other hand, fine hair is not characteristic of this group, practically all individuals possessing

1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

TABLE I

ANTHROPOMETRIC MEASUREMENTS OF BARAMA CARIBS BY SEX

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Measurement	Sex	No.	Range	Mean	S.D.	V.
1. Stature	M	104	141–179	156.82 ± .40	6.09 ± .28	3.88 ± .18
(c)*	F	99	129–158	145.78 ± .41	6.09 ± .29	4.18 ± .20
2. Biacromial	M	104	25– 42	35.84 ± .13	1.92 ± .09	5.36 ± .25
(c)	F	102	22– 54	32.57 ± .20	3.03 ± .14	9.30 ± .44
3. Chest Breadth	M	103	23– 40	28.17 ± .12	1.86 ± .09	6.60 ± .31
(c)	F	Not Observed				
4. Chest Depth	M	103	14– 19	16.78 ± .05	.82 ± .04	4.89 ± .23
(c)	F	Not Observed				
5. Sitting Height	M	103	71– 88	80.94 ± .21	3.18 ± .15	3.93 ± .18
(c)	F	101	62– 88	75.60 ± .25	3.66 ± .17	4.84 ± .23
6. Head Length	M	104	172–202	186.63 ± .38	5.67 ± .26	3.04 ± .14
(m)	F	102	158–196	177.42 ± .41	6.18 ± .29	3.48 ± .16
7. Head Breadth	M	104	135–164	149.59 ± .34	5.22 ± .24	3.49 ± .16
(m)	F	102	132–161	144.31 ± .32	4.77 ± .22	3.10 ± .15
8. Head Height	M	48	100–147	122.90 ± .85	8.72 ± .60	7.10 ± .49
(m)	F	57	100–135	114.82 ± .70	7.84 ± .50	6.83 ± .43
9. Minimum	M	104	88–123	102.47 ± .38	5.82 ± .27	5.68 ± .27
Frontal (m)	F	102	85–108	98.42 ± .29	4.29 ± .20	4.36 ± .21
10. Bizygomatic	M	104	125–149	137.80 ± .32	4.85 ± .23	3.52 ± .16
(m)	F	102	115–149	130.45 ± .36	5.35 ± .25	4.10 ± .19
11. Bigonial	M	104	88–123	100.82 ± .38	5.76 ± .27	5.71 ± .27
(m)	F	102	80–123	94.82 ± .39	5.84 ± .28	6.16 ± .29
12. Total Face	M	104	110–134	121.90 ± .34	5.15 ± .24	4.22 ± .28
Height (m)	F	102	90–134	115.00 ± .42	6.25 ± .30	5.43 ± .26
13. Upper Face	M	104	55– 79	66.00 ± .30	4.60 ± .22	6.97 ± .33
Height (m)	F	102	50– 74	63.00 ± .32	4.80 ± .23	7.62 ± .36
14. Nose Height	M	104	44– 63	54.06 ± .25	3.76 ± .18	6.96 ± .33
(m)	F	102	40– 63	51.62 ± .29	4.28 ± .20	8.29 ± .39
15. Nose Breadth	M	104	31– 51	38.15 ± .20	3.00 ± .14	7.86 ± .37
(m)	F	102	28– 42	34.49 ± .16	2.46 ± .12	7.13 ± .34

* A "(c)" indicates that the figures are in centimeters; an "(m)" indicates that the figures are in millimeters.

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

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TABLE II

ANTHROPOMETRIC INDICES OF BARAMA CARIBS BY SEX

Index	Sex	No.	Range	Mean	S.D.	V.
1. Relative Shoulder Br.	M	104	16– 25	22.80 ± .08	1.16 ± .05	5.09 ± .24
	F	99	14– 37	22.22 ± .14	2.08 ± .10	9.36 ± .45
2. Thoracic	M	103	57– 92	80.86 ± .30	4.60 ± .22	5.69 ± .27
	F	Not Observed				
3. Relative Sitting Height	M	103	46– 55	51.52 ± .11	1.68 ± .08	3.26 ± .15
	F	98	46– 57	51.92 ± .12	1.80 ± .09	3.47 ± .17
4. Cephalic Index	M	104	71– 88	80.22 ± .20	3.09 ± .14	3.85 ± .18
	F	102	74– 91	81.06 ± .18	2.73 ± .13	3.37 ± .16
5. Length-height	M	48	46– 81	65.75 ± .55	5.67 ± .39	8.62 ± .59
	F	57	52– 75	67.79 ± .39	4.35 ± .27	6.42 ± .41
6. Breadth-height	M	48	59– 94	81.75 ± .64	6.60 ± .45	8.07 ± .56
	F	57	68– 97	83.46 ± .50	5.58 ± .35	6.69 ± .42
7. Fronto-parietal	M	104	57– 83	68.71 ± .26	3.90 ± .18	5.68 ± .27
	F	102	60– 77	68.29 ± .20	3.06 ± .14	4.48 ± .21
8. Cephalo-facial	M	104	85–102	92.15 ± .19	2.88 ± .13	3.12 ± .15
	F	102	76– 99	90.44 ± .24	3.54 ± .17	3.91 ± .18
9. Zygo-gonial	M	104	63– 86	73.42 ± .25	3.78 ± .18	5.15 ± .24
	F	102	60– 86	73.24 ± .26	3.93 ± .19	5.37 ± .25
10. Fronto-gonial	M	104	75–119	98.60 ± .42	6.35 ± .30	6.44 ± .30
	F	102	70–114	96.55 ± .43	6.50 ± .31	6.73 ± .32
11. Facial	M	104	78–101	88.63 ± .27	4.08 ± .19	4.60 ± .22
	F	102	69–101	88.30 ± .30	4.50 ± .21	5.10 ± .24
12. Upper Facial	M	104	40– 57	47.93 ± .23	3.42 ± .16	7.13 ± .33
	F	102	37– 57	48.02 ± .22	3.30 ± .16	6.87 ± .32
13. Nasal	M	104	58– 93	71.00 ± .41	6.24 ± .29	8.79 ± .41
	F	102	46– 90	67.52 ± .43	6.51 ± .31	9.64 ± .46
14. Zygo-frontal	M	104	64– 87	74.46 ± .23	3.48 ± .16	4.67 ± .22
	F	102	68– 83	75.38 ± .21	3.08 ± .14	4.09 ± .19

Gillin E-5 (1932-33) 1936 SR9 Carib SR9

TABLE III (Cont.)

	Male		Female	
	N.		N.	
47. *Mid-facial prognathism*				
Absent	2	1.92	12	11.76
Small	34	32.69	59	57.84
Medium	55	52.88	25	24.51
Large	13	12.50	6	5.88
Total	104	99.99	102	99.99
48. *Alveolar prognathism*				
Absent	7	6.73	4	3.92
Small	30	28.85	38	37.25
Medium	42	40.38	44	43.14
Large	25	24.04	16	15.69
Total	104	100.00	102	100.00
49. *Chin prominence*				
Small	55	52.88	46	45.54
Medium	43	41.35	54	53.47
Large	6	5.77	1	.99
Total	104	100.00	101	100.00
50. *Chin type*				
Median	33	32.04	56	56.00
Bilateral	70	67.96	44	44.00
Total	103	100.00	100	100.00
51. *Teeth eruption*				
Complete	73	73.74	59	72.84
Partial	26	26.26	22	27.16
Total	99	100.00	81	100.00
52. *Teeth bite*				
Under	9	9.18	3	3.70
Edge to edge	29	29.59	16	19.75
Over, small	35	35.71	32	39.51
Over, large	25	25.51	30	37.04
Total	98	99.99	81	100.00
53. *Teeth loss*				
None	24	23.53	15	15.96
1–4	26	25.49	18	19.15
5–8	24	23.53	15	15.96
9–16	12	11.76	13	13.83
More than 17	16	15.69	33	35.11
Total	102	100.00	94	100.01
54. *Teeth wear*				
Absent, small	28	27.45	19	21.11
Medium	27	26.47	20	22.22
Large, very large	47	46.08	51	56.67
Total	102	100.00	90	100.00

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TABLE III (Cont.)

	Male N.	Male %	Female N.	Female %
55. *Teeth Caries*				
Absent	5	4.95	5	5.75
1–4	33	32.67	17	19.54
5–8	20	19.80	12	13.79
9–16	13	12.87	15	17.24
More than 17	30	29.70	38	43.68
Total	101	99.99	87	100.00
56. *Teeth shortening*				
Absent	48	64.86	46	76.67
Small	7	9.46	1	1.67
Medium	8	10.81	5	8.33
Large	11	14.86	8	13.33
Total	74	99.99	60	100.00
57. *Teeth crowding*				
Absent	48	47.52	33	40.24
Medium	42	41.58	35	42.68
Large	11	10.89	14	17.07
Total	101	99.99	82	99.99
58. *Malars, frontal projection*				
Absent, small	20	19.23	6	5.94
Medium	62	59.62	37	36.63
Large	22	21.15	58	57.43
Total	104	100.00	101	100.00
59. *Malars, lateral projection*				
Absent	1	.96	...	....
Small	10	9.62	...	....
Medium	55	52.88	43	42.57
Large	37	35.58	58	57.43
Very large	1	.96	...	....
Total	104	100.00	101	100.00
60. *Gonial angles*				
Small	6	5.83	6	6.00
Medium	69	66.99	46	46.00
Large	28	27.18	48	48.00
Total	103	100.00	100	100.00
61. *Ear, helix*				
Very small	12	11.54	2	1.96
Small	36	34.62	6	5.88
Medium	42	40.38	51	50.00
Large	14	13.46	43	42.16
Total	104	100.00	102	100.00

1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

TABLE III (Cont.)

	Male N.	Male %	Female N.	Female %
62. *Ear, Darwin's point*				
Absent	79	77.45	65	65.00
Small	23	22.55	30	30.00
Medium	...	....	5	5.00
Total	102	100.00	100	100.00
63. *Ear, antihelix*				
Small	46	44.23	33	32.35
Medium	47	45.19	56	54.90
Large	11	10.58	13	12.75
Total	104	100.00	102	100.00
64. *Ear, lobe*				
Soldered	43	41.35	27	26.73
Attached	22	21.15	34	33.66
Free	39	37.50	40	39.60
Total	104	100.00	101	99.99
65. *Ear size*				
Small	24	23.08	30	29.41
Medium	56	53.85	54	52.94
Large	24	23.08	18	17.65
Total	104	100.01	102	100.00
66. *Ear protrusion*				
Small	20	19.23	19	18.63
Medium	77	74.04	81	79.41
Large	7	6.73	2	1.96
Total	104	100.00	102	100.00
67. *Temporal fullness*				
Small	14	13.46	27	26.47
Medium	32	30.77	39	38.24
Large	58	55.77	36	35.29
Total	104	100.00	102	100.00
68. *Occipital protrusion*				
Small	38	36.54	32	31.77
Medium	62	59.62	69	67.65
Large	4	3.85	1	.98
Total	104	100.01	102	100.00
69. *Lambdoid flattening*				
Absent	13	12.75	24	23.76
Small	23	22.55	55	54.46
Medium	26	25.49	17	16.83
Large	40	39.22	5	4.95
Total	102	100.01	101	100.00

70. *Occipital flattening* — Not Observed

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

TABLE III (Cont.)

	Male		Female	
	N.	%	N.	%
71. *Cranial asymmetry*				
Absent	101	97.11	102	100.00
Left	1	.96	...	....
Right	2	1.92	...	....
Total	104	99.99	102	100.00
72. *Body build*				
Linear	13	12.50	22	21.57
Medium	71	68.27	58	56.86
Lateral	20	19.23	22	21.57
Total	104	100.00	102	100.00

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TABLE IV

ANTHROPOMETRIC MEASUREMENTS OF CENTRAL CARIBS BY SEX

(Constants calculated and tabulated from data presented in *The Central Caribs* by W. C. Farabee, Philadelphia, 1924)

Measurement	Sex	No.	Range	Mean	S.D.	V.
1. Stature	M	68	141–170	157.45 ± .38	4.21 ± .27	2.99 ± .17
(c)	F	28	135–158	145.08 ± .70	5.46 ± .49	3.74 ± .34
2. Biacromial	M	41	31– 39	36.02 ± .16	1.56 ± .12	4.33 ± .32
(c)	F	18	28– 39	34.01 ± .52	3.30 ± .37	9.70 ± 1.09
3. Chest Breadth	M	41	26– 34	28.62 ± .18	1.74 ± .13	6.08 ± .45
(c)	F	Not Observed				
4. Chest Depth	M	40	20– 25	22.20 ± .14	1.22 ± .10	5.95 ± .45
(c)	F	Not Observed				
5. Sitting	M	66	74– 88	81.09 ± .24	2.94 ± .17	3.63 ± .21
Height (c)	F	27	68– 85	75.45 ± .46	3.54 ± .32	4.69 ± .43
6. Head Length	M	71	170–199	182.55 ± .48	6.06 ± .34	3.32 ± .19
(m)	F	28	158–184	172.71 ± .66	5.22 ± .47	3.02 ± .27
7. Head Breadth	M	71	135–158	147.58 ± .36	4.56 ± .26	3.09 ± .17
(m)	F	28	135–155	142.87 ± .58	4.59 ± .41	3.21 ± .29
8. Head Height	Not Observed					
9. Minimum	M	68	91–120	105.27 ± .37	4.50 ± .26	4.27 ± .25
Frontal (m)	F	28	94–117	102.92 ± .53	4.17 ± .38	4.05 ± .36
10. Bizygomatic	M	68	125–149	138.25 ± .41	5.00 ± .29	3.62 ± .21
(m)	F	28	120–139	130.40 ± .54	4.25 ± .38	3.26 ± .29
11. Bigonial	M	68	92–123	105.46 ± .45	5.52 ± .32	5.23 ± .30
(m)	F	28	88–107	100.06 ± .49	3.88 ± .35	3.88 ± .35
12. Total Face	M	21	105–129	115.80 ± .78	5.30 ± .55	4.58 ± .48
Height (m)	F	12	90–114	105.75 ± .80	5.85 ± .80	5.53 ± .76
13. Upper Face	M	68	60– 89	71.70 ± .40	4.90 ± .28	6.83 ± .40
Height (m)	F	28	55– 79	64.50 ± .58	4.55 ± .41	7.05 ± .63
14. Nose Height	M	68	40– 59	48.66 ± .30	3.72 ± .22	7.64 ± .44
(m)	F	28	36– 55	44.78 ± .47	3.72 ± .34	8.31 ± .75
15. Nose Breadth	M	67	31– 48	40.52 ± .26	3.18 ± .18	7.89 ± .46
(m)	F	28	28– 42	35.87 ± .34	2.64 ± .24	7.36 ± .66

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TABLE V

ANTHROPOMETRIC INDICES OF CENTRAL CARIBS BY SEX

(Constants calculated and tabulated from data presented in *The Central Caribs* by W. C. Farabee, Philadelphia, 1924)

Index	Sex	No.	Range	Mean	S.D.	V.
1. Relative Shoulder Br.	M	41*	20– 25	23.08 ± .11	1.02 ± .08	4.42 ± .33
	F	18	20– 25	22.72 ± .18	1.14 ± .13	5.02 ± .56
2. Thoracic	M	40	69– 84	77.50 ± .37	3.44 ± .26	4.44 ± .33
	F	Not Observed				
3. Relative Sitting Height	M	64	48– 55	51.46 ± .13	1.58 ± .09	3.07 ± .18
	F	27	48– 55	52.06 ± .23	1.74 ± .16	3.34 ± .31
4. Cephalic	M	71	74– 88	80.88 ± .14	1.76 ± .10	2.18 ± .12
	F	28	74– 88	82.92 ± .37	2.91 ± .26	3.51 ± .32
5. Cephalo-facial	M	68	82– 99	93.38 ± .24	2.88 ± .17	3.08 ± .18
	F	28	82– 99	91.37 ± .46	3.63 ± .33	3.97 ± .36
6. Zygo-gonial	M	68	69– 86	76.54 ± .28	3.45 ± .28	4.51 ± .26
	F	28	68– 83	76.50 ± .38	2.96 ± .27	3.87 ± .35
7. Total Facial	M	51**	69– 86	78.85 ± .41	4.38 ± .29	5.55 ± .37
	F	12	69– 89	81.25 ± .86	4.44 ± .61	5.46 ± .75
8. Upper Facial	M	68	40– 63	51.95 ± .28	3.45 ± .20	6.64 ± .38
	F	28	43– 57	50.42 ± .44	3.48 ± .31	6.90 ± .62
9. Nasal	M	67	67–102	83.12 ± .59	7.17 ± .42	8.63 ± .50
	F	28	70– 99	81.50 ± .84	6.63 ± .60	8.14 ± .73

* Two additional cases which are given in Farabee's tables of measurements, but not included in his total of indices, were calculated and are included in the total given here.

** Nine indices which are given in Farabee's total, but for which measurements are not given, have been eliminated in the total given here.

1: Gillin B-5 (1932-33)1936 SR9 Carib SR9

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TABLE VI

ANTHROPOMETRIC MEASUREMENTS OF CENTRAL ARAWAKS BY SEX

(Constants calculated and tabulated from data presented in *The Central Arawaks* by W. C. Farabee, Philadephia, 1918)

Measurement	Sex	No.	Range	Mean	S.D.	V.
1. Stature	M	32	150–173	159.16 ± .70	5.88 ± .50	3.69 ± .31
(c)	F	17	144–155	147.64 ± .44	2.70 ± .31	1.83 ± .21
2. Biacromial	M	21	31– 42	36.56 ± .29	1.98 ± .21	5.42 ± .56
(c)	F	7	31– 36	33.71 ± .38	1.50 ± .27	4.45 ± .80
3. Chest	M	21	26– 34	29.43 ± .26	1.74 ± .18	5.91 ± .62
Breadth (c)	F	7	26– 31	28.71 ± .38	1.50 ± .27	5.22 ± .94
4. Chest Depth	M	21	20– 25	22.22 ± .19	1.28 ± .13	5.76 ± .60
(c)	F	Not Observed				
5. Sitting	M	32	74– 91	81.84 ± .41	3.45 ± .29	4.22 ± .36
Height (c)	F	12	71– 82	75.75 ± .48	2.49 ± .34	3.31 ± .46
6. Head Length	M	32	173–196	184.77 ± .52	4.35 ± .37	2.35 ± .20
(m)	F	18	167–184	174.18 ± .72	4.53 ± .51	2.60 ± .29
7. Head	M	32	138–158	148.57 ± .62	5.22 ± .44	3.51 ± .30
Breadth (m)	F	18	132–149	138.16 ± .84	5.28 ± .59	3.82 ± .43
8. Minimum	M	32	91–117	105.68 ± .69	5.76 ± .49	5.45 ± .46
Frontal (m)	F	18	91–120	100.16 ± 1.08	6.78 ± .76	6.77 ± .76
9. Bizygomatic	M	32	125–154	138.90 ± .66	5.55 ± .47	4.00 ± .34
(m)	F	18	120–139	128.65 ± .80	5.00 ± .56	3.89 ± .44
10. Bigonial	M	32	96–119	106.26 ± .63	5.32 ± .45	5.01 ± .42
(m)	F	18	80–107	95.74 ± .80	5.04 ± .57	5.26 ± .59
11. Total Face	M	21	105–134	116.50 ± .93	6.35 ± .66	5.45 ± .57
Height (m)	F	8	95–114	105.75 ± 1.16	4.85 ± .82	4.59 ± .77
12. Upper Face	M	32	60– 84	72.95 ± .55	4.60 ± .39	6.31 ± .53
Height (m)	F	18	55– 74	67.00 ± .52	3.30 ± .37	4.92 ± .55
13. Nose Height	M	32	40– 55	48.38 ± .40	3.36 ± .28	6.94 ± .58
(m)	F	17	36– 55	44.78 ± .64	3.92 ± .45	8.75 ± 1.01
14. Nose	M	32	34– 51	41.00 ± .42	3.54 ± .30	8.63 ± .73
Breadth (m)	F	17	28– 42	35.18 ± .49	3.00 ± .35	8.53 ± .99

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

TABLE VII

ANTHROPOMETRIC INDICES OF CENTRAL ARAWAKS BY SEX

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(Constants calculated and tabulated from the data presented in *The Central Arawaks* by W. C. Farabee, Philadelphia, 1918)

Index	Sex	No.	Range	Mean	S.D.	V.
1. Relative Shoulder Br.	M	21	20– 25	23.16 ± .17	1.14 ± .12	4.92 ± .51
	F	7	22– 25	23.36 ± .25	1.00 ± .18	4.28 ± .77
2. Thoracic	M	21	69– 84	76.02 ± .59	4.00 ± .42	5.26 ± .55
	F	Not Observed				
3. Relative Sitting Height	M	32	48– 55	51.32 ± .20	1.72 ± .14	3.35 ± .28
	F	12	48– 55	51.84 ± .33	1.70 ± .23	3.28 ± .45
4. Cephalic	M	32	74– 85	80.34 ± .38	3.15 ± .27	3.92 ± .33
	F	18	74– 88	81.18 ± .40	2.55 ± .29	3.14 ± .35
5. Cephalo-facial	M	32	85–106	93.98 ± .53	4.44 ± .37	4.72 ± .40
	F	18	85–100	91.34 ± .49	3.09 ± .35	3.38 ± .38
6. Zygo-gonial	M	32	70– 84	76.70 ± .45	3.75 ± .32	4.89 ± .41
	F	18	66– 83	74.50 ± .66	4.17 ± .36	5.60 ± .63
7. Total Facial	Not Observed					
8. Upper Facial	M	32	46– 63	52.43 ± .44	3.69 ± .31	7.04 ± .59
	F	18	43– 60	52.01 ± .55	3.45 ± .39	6.63 ± .74
9. Nasal	M	32	73–102	84.86 ± .99	8.28 ± .70	9.73 ± .82
	F	17	67– 96	78.95 ± 1.13	6.90 ± .80	8.74 ± 1.01

1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

TABLE VIII

COEFFICIENTS OF VARIATION OF MEASUREMENTS FOR BARAMA CARIBS, CENTRAL CARIBS, AND CENTRAL ARAWAKS

Measurement	Males			Females		
	Barama	Central	Arawaks	Barama	Central	Arawaks
Head length	3.04 ± .14	3.32 ± .19	2.35 ± .20	3.48 ± .16	3.02 ± .27	2.60 ± .29
Head breadth	3.49 ± .16	3.09 ± .17	3.51 ± .30	3.10 ± .15	3.21 ± .29	3.82 ± .42
Bizygomatic	3.57 ± .16	3.62 ± .21	4.00 ± .34	4.10 ± .19	3.26 ± .29	3.89 ± .44
Stature	3.88 ± .18	2.99 ± .17	3.69 ± .31	4.18 ± .20	3.74 ± .34	1.83 ± .21
Sitting height	3.93 ± .18	3.63 ± .21	4.22 ± .36	4.84 ± .23	4.69 ± .43	3.31 ± .46
Total face height	4.22 ± .28	4.58 ± .48	5.45 ± .47	5.43 ± .26	5.53 ± .76	4.59 ± .77
Chest depth	4.89 ± .23	5.95 ± .45	5.76 ± .60	.....	.....	.....
Biacromial	5.36 ± .25	4.33 ± .32	5.42 ± .56	9.30 ± .44	9.70 ± 1.00	4.45 ± .80
Minimum frontal	5.68 ± .27	4.27 ± .25	5.45 ± .46	4.36 ± .46	4.05 ± .36	6.77 ± .76
Bigonial	5.71 ± .27	5.23 ± .30	5.01 ± .42	6.16 ± .29	3.88 ± .35	5.26 ± .59
Chest breadth	6.60 ± .31	6.08 ± .45	5.91 ± .62	.....	.....	.....
Nose height	6.96 ± .33	7.64 ± .44	6.94 ± .58	8.29 ± .39	8.31 ± .75	8.75 ± 1.01
Upper face height	6.97 ± .33	6.83 ± .40	6.31 ± .53	7.62 ± .36	7.05 ± .63	4.92 ± .55
Head height	7.10 ± .49	.....	.....	6.83 ± .43	.....	.....
Nose breadth	7.86 ± .37	7.89 ± .46	7.63 ± .73	7.13 ± .34	7.36 ± .66	8.53 ± .99
Average	5.15	4.96	5.11	5.77	4.56	4.90

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1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

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TABLE IX

COEFFICIENTS OF VARIATION OF INDICES FOR BARAMA CARIBS, CENTRAL CARIBS, AND CENTRAL ARAWAKS

Index	Males			Females		
	Barama	Central	Arawaks	Barama	Central	Arawaks
Cephalo-facial	3.12 ± .15	3.08 ± .18	4.72 ± .40	3.91 ± .18	3.97 ± .30	3.38 ± .38
Relative sitting height	3.26 ± .15	3.07 ± .18	3.35 ± .28	3.47 ± .17	3.34 ± .31	3.28 ± .45
Cephalic	3.85 ± .18	2.18 ± .12	3.92 ± .33	3.37 ± .16	3.51 ± .32	3.92 ± .33
Facial	4.60 ± .22	5.55 ± .37	.....	5.10 ± .22	5.46 ± .75	.....
Relative shoulder breadth	5.09 ± .24	4.42 ± .33	4.92 ± .51	9.36 ± .45	5.02 ± .56	4.28 ± .77
Zygo-gonial	5.15 ± .24	4.51 ± .26	4.89 ± .41	5.37 ± .24	3.87 ± .35	5.60 ± .63
Thoracic	5.69 ± .27	4.44 ± .33	5.26 ± .55	.....	.....	.....
Upper facial	7.13 ± .33	6.64 ± .38	7.04 ± .59	6.87 ± .33	6.90 ± .62	6.63 ± .74
Nasal	8.79 ± .41	8.14 ± .73	9.73 ± .82	9.64 ± .46	8.14 ± .73	8.74 ± 1.01
Average	5.18	4.67	5.47	6.01	4.40	4.47

1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

TABLE X

DIFFERENCES BETWEEN BARAMA CARIBS AND CENTRAL CARIBS, BARAMA CARIBS AND CENTRAL ARAWAKS, WITH VALUE IN TERMS OF PROBABLE ERROR

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Measurements	Barama Caribs compared with Central Caribs—Male		Barama Caribs compared with Central Arawaks—Male	
	Diff.	p.e.	Diff.	p.e.
Stature	− .63 ± .55	1.14	−2.34 ± .81	2.89
Biacromial	− .18 ± .20	.90	− .72 ± .32	2.25
Chest breadth	− .45 ± .22	2.04	−1.26 ± .28	4.50
Chest depth	−5.42 ± .14	38.71	−5.44 ± .20	27.20
Sitting height	− .15 ± .32	.47	− .90 ± .46	1.96
Head length	4.08 ± .61	6.69	1.86 ± .64	2.91
Head breadth	2.01 ± .49	4.10	1.02 ± .71	1.44
Minimum frontal	−2.80 ± .53	5.28	−3.21 ± .79	4.06
Bizygomatic	− .45 ± .52	.86	−1.10 ± .74	1.49
Bigonial	−4.64 ± .59	7.86	−5.44 ± .74	7.35
Total face height	6.10 ± .85	7.18	5.40 ± .99	5.45
Upper face height	−5.70 ± .50	11.40	−6.95 ± .62	11.21
Nose height	5.40 ± .39	13.85	5.68 ± .47	12.08
Nose breadth	−2.37 ± .33	7.18	−2.85 ± .47	6.06

TABLE XI

DIFFERENCES BETWEEN BARAMA CARIBS AND CENTRAL CARIBS, BARAMA CARIBS AND CENTRAL ARAWAKS, WITH VALUE IN TERMS OF PROBABLE ERROR

Indices	Barama Caribs compared with Central Caribs—Male		Barama Caribs compared with Central Arawaks—Male	
	Diff.	p.e.	Diff.	p.e.
Rel. shoulder br.	− .28 ± .14	2.00	− .36 ± .20	1.80
Thoracic	2.86 ± .48	5.96	4.34 ± .66	6.58
Rel. sitting height	.06 ± .17	.35	.20 ± .22	.91
Cephalic	− .66 ± .24	2.75	− .12 ± .42	.28
Cephalo-facial	− 1.23 ± .30	4.10	− 1.83 ± .57	3.21
Zygo-gonial	− 3.12 ± .37	8.43	− 3.28 ± .51	6.43
Facial	9.78 ± .49	19.96	.....	....
Upper facial	− 4.02 ± .36	11.17	− 4.50 ± .50	9.00
Nasal	−12.12 ± .72	16.83	−13.86 ± 1.07	12.95

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

TABLE XII

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DIFFERENCES BETWEEN BARAMA CARIBS AND CENTRAL CARIBS, BARAMA CARIBS AND CENTRAL ARAWAKS, WITH VALUE IN TERMS OF PROBABLE ERROR

Measurements	Barama Caribs compared with Central Caribs—Females		Barama Caribs compared with Central Arawaks—Females	
	Diff.	x.p.e.	Diff.	x.p.e.
Stature	.70 ± .81	.86	−1.86 ± .60	3.10
Biacromial	−1.44 ± .56	2.57	−1.14 ± .42	2.71
Sitting height	.15 ± .52	.29	− .15 ± .54	.28
Head length	4.71 ± .77	6.12	3.24 ± .83	3.90
Head breadth	1.44 ± .66	2.18	6.15 ± .90	6.83
Minimum frontal	−4.50 ± .60	7.50	−1.74 ± 1.12	1.55
Bizygomatic	.05 ± .65	.08	1.80 ± .88	2.04
Bigonial	−5.24 ± .62	8.45	− .92 ± .89	1.03
Total face height	9.25 ± .90	10.28	9.25 ± 1.23	7.52
Upper face height	−1.50 ± .66	2.27	−4.00 ± .61	6.56
Nose height	6.84 ± .55	12.44	6.84 ± .70	9.77
Nose breadth	−1.38 ± .37	3.73	− .69 ± .52	1.33

TABLE XIII

DIFFERENCES BETWEEN BARAMA CARIBS AND CENTRAL CARIBS, BARAMA CARIBS AND CENTRAL ARAWAKS, WITH VALUE IN TERMS OF PROBABLE ERROR

Indices	Barama Caribs compared with Central Caribs—Females		Barama Caribs compared with Central Arawaks—Females	
	Diff.	x.p.e.	Diff.	x.p.e.
Rel. shoulder br.	− .50 ± .22	2.27	− 1.14 ± .28	4.07
Rel. sitting height	− .14 ± .26	.54	.08 ± .35	.23
Cephalic	− 1.86 ± .41	4.54	− .12 ± .44	.27
Cephalo-facial	− .93 ± .52	1.79	− .90 ± .55	1.64
Zygo-gonial	− 3.26 ± .46	7.09	− 1.26 ± .71	1.77
Facial	7.05 ± .91	7.75	.....	....
Upper facial	− 2.40 ± .49	4.90	− 3.99 ± .59	6.76
Nasal	−13.98 ± .94	14.87	−11.43 ± 1.21	9.45

1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

TABLE XIV

ANTHROPOMETRIC MEASUREMENTS OF BARAMA CARIBS WITH STRAIGHT AND BLACK HAIR ("Pure" Group) BY SEX

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Measurement	Sex	No.	Range	Mean	S.D.	V
1. Stature	M	28	141–170	156.25 ± .85	6.69 ± .60	4.28 ± .39
(c)*	F	32	135–158	147.52 ± .71	5.97 ± .50	4.05 ± .34
2. Biacromial	M	28	25– 39	35.42 ± .32	2.49 ± .22	7.03 ± .63
(c)	F	33	22– 39	31.91 ± .36	3.09 ± .26	9.68 ± .80
3. Chest	M	28	23– 31	27.54 ± .18	1.41 ± .13	5.12 ± .46
Breadth (c)	F	Not Observed				
4. Chest Depth	M	28	14– 19	16.64 ± .12	.92 ± .08	5.53 ± .50
(c)	F	Not Observed				
5. Sitting	M	28	74– 88	80.04 ± .40	3.12 ± .28	3.90 ± .35
Height (c)	F	33	68– 88	75.81 ± .41	3.78 ± .31	4.99 ± .41
6. Head Length	M	28	173–199	185.88 ± .74	5.82 ± .52	3.13 ± .28
(m)	F	33	164–193	178.83 ± .69	5.91 ± .49	3.30 ± .27
7. Head	M	28	135–164	149.50 ± .77	6.03 ± .54	4.03 ± .36
Breadth (m)	F	33	135–155	144.82 ± .43	3.69 ± .31	2.55 ± .21
8. Head	M	14	104–147	126.94 ± 1.56	8.61 ± 1.10	6.81 ± .87
Height (m)	F	15	108–131	122.02 ± 1.27	7.28 ± .90	6.41 ± .79
9. Minimum	M	28	91–117	101.75 ± .70	5.46 ± .49	5.37 ± .48
Frontal (m)	F	33	85–105	98.18 ± .52	4.41 ± .37	4.52 ± .38
10. Bizygomatic	M	28	125–149	137.00 ± .57	4.45 ± .40	3.25 ± .29
(m)	F	33	120–144	131.10 ± .42	1.00 ± .08	3.81 ± .32
11. Bigonial	M	28	88–123	100.94 ± .93	7.32 ± .66	7.25 ± .65
(m)	F	33	84–123	97.14 ± .70	6.00 ± .50	6.18 ± .51
12. Total Face	M	28	110–134	119.70 ± .65	5.10 ± .46	4.26 ± .38
Height (m)	F	33	100–129	115.65 ± .72	6.10 ± .51	5.28 ± .44
13. Upper Face	M	28	55– 74	63.60 ± .52	4.05 ± .36	6.37 ± .57
Height (m)	F	33	55– 74	67.45 ± .51	4.35 ± .36	6.97 ± .58
14. Nose Height	M	28	44– 59	52.78 ± .47	3.72 ± .31	7.05 ± .61
(m)	F	33	44– 63	52.18 ± .41	3.52 ± .29	6.75 ± .56
15. Nose	M	28	31– 45	37.46 ± .36	2.79 ± .25	7.45 ± .67
Breadth (m)	F	33	31– 42	34.73 ± .28	2.37 ± .20	6.82 ± .57

*A "(c)" indicates that the figures are in centimeters; an "(m)" indicates that the figures are in millimeters.

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

TABLE XV

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ANTHROPOMETRIC INDICES OF BARAMA CARIBS WITH STRAIGHT AND BLACK HAIR ("Pure" Group) BY SEX

Index	Sex	No.	Range	Mean	S.D.	V.
1. Relative Shoulder Br.	M	28	16– 25	22.50 ± .18	1.42 ± .13	6.31 ± .57
	F	32	14– 25	21.50 ± .25	2.12 ± .18	9.86 ± .83
2. Thoracic	M	28	65– 88	77.34 ± .54	4.24 ± .38	5.48 ± .49
	F	Not Observed				
3. Relative Sitting Height	M	28	48– 55	51.14 ± .19	1.52 ± .14	2.97 ± .27
	F	32	46– 57	51.68 ± .26	2.18 ± .18	4.22 ± .36
4. Cephalic	M	28	71– 88	80.46 ± .42	3.30 ± .30	4.10 ± .37
	F	33	74– 85	80.73 ± .31	2.61 ± .22	3.23 ± .27
5. Length-Height	M	14	55– 81	68.63 ± .90	4.98 ± .63	7.26 ± .92
	F	15	61– 75	67.79 ± .75	4.32 ± .53	6.37 ± .78
6. Breadth-Height	M	14	71– 94	83.37 ± 1.07	5.94 ± .76	7.12 ± .91
	F	15	74– 94	84.00 ± 1.03	5.91 ± .73	7.04 ± .87
7. Fronto-parietal	M	28	63– 74	68.08 ± .37	2.94 ± .26	4.32 ± .39
	F	33	60– 74	67.81 ± .37	3.15 ± .26	4.64 ± .38
8. Cephalo-facial	M	28	85– 96	91.58 ± .32	2.49 ± .22	2.72 ± .24
	F	33	85– 99	91.01 ± .42	3.60 ± .30	3.96 ± .33
9. Zygo-gonial	M	28	63– 86	73.63 ± .60	4.71 ± .42	6.40 ± .58
	F	33	60– 86	74.44 ± .51	4.32 ± .36	5.80 ± .48
10. Fronto-gonial	M	28	90–119	99.70 ± .86	6.75 ± .66	6.77 ± .61
	F	33	80–114	99.40 ± .68	5.80 ± .48	5.84 ± .48
11. Facial	M	28	78–107	87.58 ± .51	3.99 ± .36	4.56 ± .41
	F	33	81– 95	88.27 ± .44	3.72 ± .31	4.21 ± .35
12. Upper Facial	M	28	40– 54	46.46 ± .36	2.79 ± .25	6.00 ± .54
	F	33	43– 54	47.45 ± .28	2.37 ± .20	4.99 ± .41
13. Nasal	M	28	61– 87	72.08 ± .72	5.67 ± .51	7.87 ± .71
	F	33	58– 81	66.92 ± .67	5.70 ± .47	8.52 ± .71
14. Zygo-frontal	M	28	68– 87	74.06 ± .47	3.68 ± .33	4.97 ± .45
	F	33	68– 83	74.58 ± .37	3.16 ± .26	4.24 ± .35

1: Gillin E-5 (1932-33)1936 SR9 Carib SR9

TABLE XVII

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DIFFERENCES OF MEANS AND VALUE IN TERMS OF PROBABLE ERROR BETWEEN THE PURE CARIB GROUP AND CENTRAL CARIBS, THE PURE CARIBS AND CENTRAL ARAWAKS, MALES

Measurements	Differences between Pure Caribs and Central Caribs. Male		Differences between Pure Caribs and Central Arawaks Male	
	Diff.	z.p.e.	Diff.	z.p.e.
Stature	−1.20 ± .93	1.29	−2.91 ± 1.10	2.64
Biacromial	− .60 ± .36	1.67	− .94 ± .44	2.14
Chest breadth	−1.08 ± .25	4.32	−1.89 ± .32	5.91
Chest depth	−5.56 ± .18	30.89	−5.58 ± .22	25.36
Sitting height	−1.05 ± .47	2.23	−1.80 ± .57	3.16
Head length	3.33 ± .88	3.78	1.11 ± .92	1.21
Head breadth	1.92 ± .85	2.26	.93 ± .99	.94
Minimum frontal	−3.52 ± .79	4.46	−3.93 ± .98	4.01
Bizygomatic	−1.25 ± .70	1.79	−1.90 ± .87	2.18
Bigonial	−4.52 ± 1.03	4.39	−5.32 ± 1.12	4.75
Total face height	3.90 ± 1.02	3.82	3.20 ± 1.14	2.81
Upper face height	−8.10 ± .66	12.27	−9.35 ± .75	12.47
Nose height	3.61 ± .56	6.45	4.40 ± .62	7.10
Nose breadth	−3.06 ± .39	7.85	−3.54 ± .50	7.08

TABLE XVIII

DIFFERENCES OF MEANS AND VALUE IN TERMS OF PROBABLE ERROR BETWEEN THE PURE CARIB GROUP AND CENTRAL CARIBS, THE PURE CARIBS AND CENTRAL ARAWAKS, MALES

Indices	Differences between Pure Caribs and Central Caribs. Male		Differences between Pure Caribs and Central Arawaks Male	
	Diff.	z.p.e.	Diff.	z.p.e.
Rel. shoulder br.	− .58 ± .20	2.90	− 1.13 ± .30	3.77
Thoracic	− .16 ± .66	.24	1.32 ± .80	1.65
Rel. sitting height	− .32 ± .22	1.45	− .18 ± .26	.69
Cephalic	− .42 ± .45	.93	.12 ± .57	.21
Cephalo-facial	− 1.80 ± .40	4.50	− 2.40 ± .62	3.87
Zygo-gonial	− 2.91 ± .66	4.41	− 3.07 ± .75	4.09
Facial	8.73 ± .66	13.23	.....	....
Upper facial	− 5.49 ± .45	12.20	− 5.97 ± .57	10.47
Nasal	−11.04 ± .93	11.87	−12.78 ± 1.22	10.48

1: Gillin E-5 (1932-33) 1936 SR9 Carib SR9

TABLE XIX

DIFFERENCES OF MEANS AND VALUE IN TERMS OF PROBABLE ERROR BETWEEN THE PURE CARIB GROUP AND CENTRAL CARIBS, THE PURE CARIBS AND CENTRAL ARAWAKS, FEMALES

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Measurements	Differences between Pure Caribs and Central Caribs. Female		Differences between Pure Caribs and Central Arawaks. Female	
	Diff.	x.p.e.	Diff.	x.p.e.
Stature	2.44 ± 1.00	2.44	− .12 ± .84	.14
Biacromial	−2.10 ± .63	3.33	−1.80 ± .52	3.46
Sitting height	.36 ± .63	.57	.06 ± .65	.09
Head length	7.12 ± .95	7.49	5.65 ± 1.00	5.65
Head breadth	1.95 ± .72	2.71	6.66 ± .94	7.08
Minimum frontal	−4.74 ± .74	6.40	−1.98 ± 1.20	1.65
Bizygomatic	.70 ± .56	1.25	2.45 ± .66	3.71
Bigonial	−2.92 ± .85	3.43	1.40 ± 1.06	1.32
Total face height	9.90 ± 1.08	9.17	9.90 ± 1.36	7.28
Upper face height	3.04 ± .77	3.95	.45 ± .73	.62
Nose height	7.40 ± .62	11.94	7.40 ± .76	9.74
Nose breadth	−1.14 ± .44	2.59	− .45 ± .57	.79

TABLE XX

DIFFERENCES OF MEANS AND VALUE IN TERMS OF PROBABLE ERROR BETWEEN THE PURE CARIB GROUP AND CENTRAL CARIBS, THE PURE CARIBS AND CENTRAL ARAWAKS, FEMALES

Indices	Differences between Pure Caribs and Central Caribs. Female		Differences between Pure Caribs and Central Arawaks. Female	
	Diff.	x.p.e.	Diff.	x.p.e.
Rel. shoulder bth.	− 1.23 ± .30	4.07	− 1.86 ± .35	5.31
Rel. sitting height	− .38 ± .35	1.09	− .16 ± .42	.38
Cephalic	− 2.19 ± .48	4.56	− .45 ± .51	.88
Cephalo-facial	− .36 ± .62	.58	− .33 ± .65	.51
Zygo-gonial	− 2.06 ± .63	3.27	− .06 ± .84	.07
Facial	7.02 ± .96	7.31	.....	....
Upper facial	− 2.97 ± .52	5.71	− 4.56 ± .62	7.35
Nasal	−14.58 ± 1.07	5.71	−12.03 ± 1.32	9.11